

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: March 15, 2002, 03:40:08 ; Search time 196.63 Seconds  
(without alignments)  
19162.612 Million cell updates/sec

Title: US-09-652-292-1

Perfect score: 4395  
Sequence: 1 gagggggtccctgccagccc.....attattgtataaaaaaaa 4395

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N\_Geneseq\_1101.\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID       | Description         |
|------------|-------|-------------|--------|----------|---------------------|
| C 1        | 317.4 | 7.2         | 385    | AAH50797 | Human tumour assoc  |
| C 2        | 190.6 | 4.3         | 1581   | AAH13737 | Human cDNA sequenc  |
| C 3        | 189.2 | 4.3         | 241    | AAF17845 | Human breast cancer |
| C 4        | 189.2 | 4.3         | 3559   | AAH17289 | Human cDNA sequenc  |
| C 5        | 183.4 | 4.2         | 16225  | AAI62650 | Human breast or ov  |
| C 6        | 183.4 | 4.2         | 25423  | AAI57656 | Human colorectal c  |
| C 7        | 183.4 | 4.2         | 25424  | AAI57657 | Human colorectal c  |
| C 8        | 181.8 | 4.1         | 700    | AAH92304 | Human inflammatory  |
| C 9        | 181.8 | 4.1         | 883    | AAH03959 | Human cDNA clone (  |
| C 10       | 181.8 | 4.1         | 54548  | AAH45596 | DNA sequence of th  |
| C 11       | 181   | 4.1         | 161425 | AAH02340 | Human AKAP10 gene   |

|      |       |     |        |    |           |                     |
|------|-------|-----|--------|----|-----------|---------------------|
| C 12 | 181   | 4.1 | 162025 | 22 | AAH02339  | Human AKAP10 gene   |
| C 13 | 180.8 | 4.1 | 936    | 22 | AAF58252  | Oligonucleotide D1  |
| C 14 | 180.8 | 4.1 | 936    | 22 | AAF58254  | Oligonucleotide D1  |
| C 15 | 180.8 | 4.1 | 936    | 22 | AAF58257  | Oligonucleotide D1  |
| C 16 | 180.8 | 4.1 | 936    | 22 | AAF58259  | Oligonucleotide D2  |
| C 17 | 180.8 | 4.1 | 936    | 22 | AAF58262  | Oligonucleotide D2  |
| C 18 | 180.8 | 4.1 | 938    | 22 | AAF58255  | Oligonucleotide D1  |
| C 19 | 180.2 | 4.1 | 3234   | 16 | AAQ52781  | Human thymopoleitin |
| C 20 | 178.4 | 4.1 | 35651  | 22 | AAF57595  | ATM complete genom  |
| C 21 | 177.8 | 4.0 | 6218   | 20 | AAFS8987  | Human transcriptio  |
| C 22 | 177.8 | 4.0 | 32174  | 22 | AAI62606  | Human breast or ov  |
| C 23 | 177.8 | 4.0 | 32174  | 22 | AAI62904  | Human genomic DNA   |
| C 24 | 177.8 | 4.0 | 72604  | 20 | AAZ10752  | Genomic sequenced o |
| C 25 | 177.4 | 4.0 | 2259   | 21 | AACT4401  | Human secreted pro  |
| C 26 | 177.4 | 4.0 | 34488  | 22 | AAF97854  | Human neuroblascom  |
| C 27 | 177.4 | 4.0 | 121162 | 21 | AAAC6548  | Human kinesin-like  |
| C 28 | 177.2 | 4.0 | 1296   | 19 | AAV29031  | Human protein comp  |
| C 29 | 177.2 | 4.0 | 9365   | 21 | AAZ50359  | Human CD39-L4 geno  |
| C 30 | 177.2 | 4.0 | 9365   | 22 | AAF63405  | Human CD39 like pr  |
| C 31 | 177.2 | 4.0 | 14747  | 22 | AAF63405  | Human CD39 like pr  |
| C 32 | 177.2 | 4.0 | 15977  | 22 | AAF63407  | Human CD39 like pr  |
| C 33 | 177.2 | 4.0 | 236303 | 22 | AAAS11614 | Human genomic DNA   |
| C 34 | 177   | 4.0 | 282    | 18 | AAAT62346 | Consensus Aliu rope |
| C 35 | 177   | 4.0 | 160552 | 22 | AAAD02697 | Human glycosyl aul  |
| C 36 | 176.8 | 4.0 | 759    | 21 | AAAC81744 | Human secreted pro  |
| C 37 | 176.6 | 4.0 | 936    | 22 | AAF58252  | Oligonucleotide D1  |
| C 38 | 176.6 | 4.0 | 936    | 22 | AAF58254  | Oligonucleotide D1  |
| C 39 | 176.6 | 4.0 | 936    | 22 | AAF58257  | Oligonucleotide D1  |
| C 40 | 176.6 | 4.0 | 936    | 22 | AAF58259  | Oligonucleotide D2  |
| C 41 | 176.6 | 4.0 | 936    | 22 | AAF58262  | Oligonucleotide D2  |
| C 42 | 176.6 | 4.0 | 938    | 22 | AAF58255  | Oligonucleotide D1  |
| C 43 | 176.6 | 4.0 | 2406   | 22 | AAH18479  | Human cDNA sequenc  |
| C 44 | 176.2 | 4.0 | 1376   | 21 | AAAC99845 | Human secreted pro  |
| C 45 | 176.2 | 4.0 | 168575 | 22 | AAH21613  | Human hypocrerin r  |

#### ALIGNMENTS

RESULT 1  
AAH50797/c  
ID AAH50797 standard; cDNA: 385 BP.  
XX AAH50797;  
XX  
XX 23-AUG-2001 (first entry)  
XX Human tumour associated cDNA #126.  
XX  
XX Human; cancer specific gene expression; gene therapy;  
XX age related differential expression; ss.  
XX Homo sapiens.  
XX  
XX WO200136685-A2.  
XX  
XX 25-MAY-2001.  
XX  
XX 17-NOV-2000; 2000WO-US31809.  
XX  
XX 17-NOV-1999; 99US-0166056.  
XX 17-NOV-1999; 99US-0166106.  
XX (NYXI-) NYXIS NEURO THERAPIES INC.  
XX Kroes RA, Moskal JR, Yamamoto H;  
XX WPI; 2001-355647/37.  
XX Novel nucleic acid molecules differentially expressed in brain cancers,  
XX useful for ascertaining propensity of cell for malignant phenotype or  
XX ascertaining suitability of anti-neoplastic drug candidate -





RESULT 5  
AAI62650  
ID AAI62650 standard; DNA; 16225 BP.  
XX  
AC AAI62650;  
XX  
DT 19-OCT-2001 (first entry)  
XX  
DE Human breast or ovarian antigen genomic DNA SEQ ID NO: 300.  
KW Human; breast antigen; ovarian antigen; cancer; metastasis; gene therapy;  
KW ds.  
XX  
OS Homo sapiens.  
PN WO200155324-A2.  
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PF 17-JAN-2001; 2001WO-US01344.  
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| PR | 08-DEC-2000; | 2000US-0251989; |

08-DEC-2000; 2000US-0251990.  
11-DEC-2000; 2000US-0254097.  
05-JAN-2001; 2001US-0259678.  
(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;  
WPI; 2001-457727/49.

Isolated polypeptide for treating, preventing and/or prognosing disorders related to the colon and rectum including colorectal cancers and also for testing and detection e.g. diagnosis -

Disclosure; SEQ ID NO: 193; 522pp + Sequence Listing; English.

The present invention provides the protein and coding sequences of a number of colorectal cancer antigens. These are shown in AA157547-AA157619 and AA157569-AA157641. These can be used in the diagnosis, prevention and treatment of cancer of the colon and/or rectum. The present sequence is a colorectal cancer antigen genomic sequence. Note: The sequence data for this patent did not form part of the printed CC specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.

Sequence 25423 BP; 5518 A; 6899 C; 6921 G; 6085 T; 0 other;

Query Match 4.2%; Score 183.4; DB 22; Length 25423;  
Best local similarity 81.5%; Pred. No. 8.6e-28;  
Matches 242; Conservative 0; Mismatches 41; Indels 14; Gaps 2

QY 2314 tctcttttttacctatcatttttttttttgagggtgagtcctcattctgtggccag 2373  
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||  
2373 TTATTTTATTATTTATTTATTTATTTGTTTTTGAGATGGAGTCCTGTCTGTGCCTAG 17776  
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17775 GCTGGAGTGTGTGACCCCATCTTGGCTCACTGCACAACCTCCACCCTCCGGGTTCAAGCGA 17716  
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17655 AATTTTGTATTGTGTAGTAGATGGGGTTTCCACCATGTTGGCCAGGCTAGTCTCGAACT 17596  
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17595 CCTAACCTCAGGTGATCTGCCACACTCTGCCTCCCAAAGTCTAGGATTACAGGCAT 17539

RESULT 7  
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ID AAI57657 standard; DNA; 25424 BP.  
XX AAI57657;  
XX XX  
DT 19-OCT-2001 (first entry)  
XX XX  
DE Human colorectal cancer antigen coding sequence SEQ ID NO: 194.  
XX XX  
KW Human; colorectal cancer; colorectal cancer antigen; gene therapy; ds.  
OS Homo sapiens.  
XX XX  
PN WO200155350-A1.  
XX XX  
PD 02-AUG-2001.  
XX XX  
PP 17-JAN-2001; 2001WO-US01350.  
XX XX

PR 31-JAN-2000; 2000US-0179065.  
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 PR 24-FEB-2000; 2000US-0184664.  
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 PR 08-NOV-2000; 2000US-0246524.  
 PR 08-NOV-2000; 2000US-0246525.  
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(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-457727/49.

Isolated polypeptide for treating, preventing and/or prognosing  
 disorders related to the colon and rectum including colorectal cancers  
 and also for testing and detection e.g. diagnosis -









```

RESULT 12
AAH02339
ID AAH02339 standard; DNA; 162025 BP.
XX
AC AAH02339;
XX
DT 12-JUN-2001 (first entry)
XX
DE Human AKAP10 gene SEQ ID NO: 35.
XX
Database; polymorphism; SNP; human; genetic marker; disease; infection;
KW drug response; ds.
XX
OS Homo sapiens.
XX
PN WO200127857-A2.
XX
PD 19-APR-2001.
XX
PF 13-OCT-2000; 2000WO-US28413.
XX
PR 13-OCT-1999; 99US-0159176.
PR 10-JUL-2000; 2000US-0217251.
PR 10-JUL-2000; 2000US-0217658.
PR 19-SEP-2000; 2000US-0663968.
XX
PA (SEQU-) SEQUENOM INC.
XX
PI Braun A, Koester H, Van Den Boom D, Ping Y, Rodi C, He L, Chiu N,
PI Jurinke C;
XX
WPI; 2001-273865/28.
XX
Producing a database for identifying polymorphic genetic markers,
PT comprises obtaining data relating to members of a healthy population
PT and entering the information into a database -
XX
PS Example 3; Page 196-241; 304pp; EngLish.
XX
CC The present invention provides a database of human samples obtained from
CC healthy individuals which can be used to identify polymorphic genetic
CC markers. Data obtained for the database can be used to sort the samples
CC by parameters such as age, sex and ethnicity. This is useful in linking
CC markers with diseases, susceptibility to infection and drug responses.
CC The present sequence was used in an assay to demonstrate the uses of the
CC database of the invention.
XX
SQ Sequence 162025 BP; 48006 A; 33691 C; 34805 G; 45523 T; 0 other;

Query Match      4.1%; Score 181; DB 22; Length 162025;
Best Local Similarity 81.6%; Pred. No. 5.3e-27;
Matches 239; Conservative 0; Mismatches 40; Indels 14; Gaps

Qy 2318 ttttctactcctatcatcttttttttgcgggtgaggcttcattctgttgccagcgctg 2377
    ||| ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 123869 ttctctttttctcttttttaatttttgtgatggagtctgtctgcaccaggcta 123920

Qy 2378 gccct-----gatcttgctcacctgcacacctccacttctctgggtcaagcgattct 2427
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 123929 gagtgcagtagcacgatactcagctgcactgcacacctcccactctgggtttcaagcggtct 123989

Qy 2428 cctgccacagcctcctaagtgcgtgggattacagcgctgcgccaccacacccagcataatt 2487
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 123989 cctgccacagcctcctgcagtgcgtgggattacagctggtgggggccaccacgcgataatt 124040

Qy 2488 ----tatcttttagacagagatgggttttcaactgctgttgccagcgctgcgtgaacctcgtg 2543
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 124049 ttgtatcttttagtagacagcgggtttcacacctgttgccagcgcgctctgaaectcgtg 124100

Qy 2544 agctcaagtgcacccacacctcagcctcccccaagaagtgcataaqtaccagqacct 2596

```



|    |  |
|----|--|
| CC | detection of nucleic acids, especially of substitutions (mismatches) |
| CC | and single-nucleotide polymorphisms, e.g. for genotyping,            |
| CC | monitoring gene expression.  |
| XX |  |
| SQ | Sequence 936 BP; 4 A; 144 C; 7 G; 5 T; 776 other;                    |

|                         |      |                    |           |             |
|-------------------------|------|--------------------|-----------|-------------|
| Query Match             | 4.1% | Score 180.8;       | DB 22;    | Length 936; |
| Best Local Similarity   | 0.7% | Pred. No. 8.5e-28; |           |             |
| Matches 5: Conservative | 526; | Mismatches 233;    | Indels 0; | Gaps 0;     |

[illegible]

|            |                                 |
|------------|---------------------------------|
| RESULT 15  |                                 |
| AAF58357/c |                                 |
| ID         | AAF58257 standard; DNA; 936 BP. |
| XX         |                                 |
| XX         |                                 |
| XX         | AAF58257;                       |
| XX         |                                 |
| XX         | 24-APR-2001 (first entry)       |
| XX         |                                 |
| DE         | Oligonucleotide D1954.          |

xx kw kw xx os xx pn xx pd xx pf xx pr pr xx pa xx pi xx dr xx pt pt pt xx ps xx cc cc cc cc cc cc xx sq

Electron-transfer group; ETM; mismatch; genotyping; gene expression; ss.

Synthetic.

WO200107665-A2.

01-FEB-2001.

26-JUL-2000: 2000WC-US20476.

26-JUL-1999: 99US-0145695.

1/-MAR-2000; 2000S-0190239.

**Umek RM;**

WPI: 2001-159728/16.

Nucleic acids containing electron-transfer group, useful as labels in hybridization assays, e.g. for genotyping, allowing repeat analyses on a single surface -

Example 6; Page 127; 159pp; English.

The present invention relates to a composition comprising two nucleic acids each containing an electron-transfer group (ETM) having different redox potentials. The invention is used for electronic detection of nucleic acids, especially of substitutions (mismatches) and single-nucleotide polymorphisms, e.g. for genotyping, monitoring gene expression.

Sequence 936 BP; 5 A; 142 C; 7 G; 6 T; 776 other;

Query Match 4.1%; Score 180.8; DB 22; Length 936;  
Best Local Similarity 0.7%; Pred. NO. 8.5e-28;  
Matches 5; Conservative 526; Mismatches 233; Indels 0; Gaps 0;

|      |    |  |      |
|------|----|--|------|
| 3632 | QY | aatgacatactgttagtcttttggttcctaactgcgtggagtggttttttgtacaaca       | 3691 |
| :    | :  | :          | :    |
| 780  | Db | ~~~~~  | 721  |
| 3692 | QY | aagattagaggacctcacatcagggcctgatattatgtttgttgattcttcagacttc       | 3751 |
| :    | :  | :          | :    |
| 720  | Db | ~~~~~  | 661  |
| 3752 | QY | agaacatgctggataaaatgtccagtgaatgcaaaattaacctttaagtatgtctgtttgtc   | 3811 |
| :    | :  | : ~~~~         | :    |
| 660  | Db | ~~~~~  | 601  |
| 3812 | QY | agccaatacatggtctatagaccaccaaaaaatggaggagattatctccagtagttgaaca    | 3871 |
| :    | :  | : ~~~~         | :    |
| 600  | Db | ~~~~~  | 541  |
| 3872 | QY | ctgtcatcgttttcagctgcacagctgcacaaatcatttaagaggaggtcttcgacattcat   | 3931 |
| :    | :  | : ~~~~         | :    |
| 540  | Db | ~~~~~  | 481  |
| 3932 | QY | tttcattgttttacttttgtcttctctactagtgtaaacaaaatttcaaccagcattca      | 3991 |
| :    | :  | : ~~~~         | :    |
| 480  | Db | ~~~~~  | 421  |
| 3992 | QY | tgccgaacctaacccattcttcagtgctcagctgtatcagttatccagggttttttattcg    | 4051 |
| :    | :  | : ~~~~         | :    |
| 420  | Db | ~~~~~  | 361  |
| 4052 | QY | tagtctaaattttgtcaaatcatggccaaatcgccagtgatagttgactcttggatacaaggct | 4111 |
| :    | :  | : ~~~~         | :    |
| 360  | Db | ~~~~~  | 301  |

```

QY 4112 ttggcaaaaaaataatacaaaatattctgtagaatcaattggctatatatgaatt 4171
Db 300 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 241
QY 4172 taggataaagaataattacaataaagaataattacaataaagagtttattatttata 4231
Db 240 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 181
QY 4232 agttgtgtgcaacaacacaccccttattctgttaaaatttatcacacacacaaataaaca 4291
Db 180 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 121
QY 4292 aaagattctgtagaataattggctatatggaatttaggatagaatattacaataaag 4351
Db 120 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 61
QY 4352 agtattacaataaagagtttgttattattgttaaaaaaa 4395
Db 60 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 17

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Search completed: March 15, 2002, 05:24:41  
Job time: 6273 sec